

# ILP2R571MC1A

integrated drive ILP with 2-phase stepper motor  
- 24..48 V DC - RS485 - 0.63 N.m



## Main

|                           |                                            |
|---------------------------|--------------------------------------------|
| Range of product          | Lexium integrated drive                    |
| Product or component type | Motion integrated drive                    |
| Device short name         | ILP                                        |
| Motor type                | 2-phase stepper motor                      |
| Network type              | DC                                         |
| Electrical connection     | Industrial connector                       |
| [Us] rated supply voltage | 24...48 V                                  |
| Length                    | 88.39 mm                                   |
| Winding type              | Medium speed of rotation and medium torque |
| Gear box type             | Without                                    |
| Nominal speed             | 600 rpm at 48 V<br>400 rpm at 24 V         |
| Holding torque            | 0.63 N.m                                   |

## Complementary

|                            |                                                                                                                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Communication interface    | RS485                                                                                                                                                                                                                                           |
| Transmission rate          | 4.8, 9.6, 19.2, 38.4, 115 kbauds                                                                                                                                                                                                                |
| Mounting support           | Flange                                                                                                                                                                                                                                          |
| Motor flange size          | 57 mm                                                                                                                                                                                                                                           |
| Feedback type              | Index pulse                                                                                                                                                                                                                                     |
| Holding brake              | Without                                                                                                                                                                                                                                         |
| Supply voltage limits      | 12...48 V                                                                                                                                                                                                                                       |
| Current consumption        | 3.2 A (maximum continuous)                                                                                                                                                                                                                      |
| Input/Output type          | 11 signals (each be used as input or output)                                                                                                                                                                                                    |
| Voltage state 0 guaranteed | <= 0.8 V                                                                                                                                                                                                                                        |
| Voltage state 1 guaranteed | >= 2.2 V                                                                                                                                                                                                                                        |
| Discrete input current     | 1.75 mA at 24 V for 24 V signal interface                                                                                                                                                                                                       |
| Maximum switching current  | 600 mA single channel<br>275 mA four channels                                                                                                                                                                                                   |
| Protection type            | Overload of output voltage<br>Short circuit of the output voltage                                                                                                                                                                               |
| Peak stall torque          | 0.63 N.m                                                                                                                                                                                                                                        |
| Continuous stall torque    | 0.63 N.m                                                                                                                                                                                                                                        |
| Speed feedback resolution  | 800 steps<br>6400 steps<br>51200 steps<br>50000 steps<br>5000 steps<br>40000 steps<br>400 steps<br>3200 steps<br>25600 steps<br>25000 steps<br>20000 steps<br>2000 steps<br>200 steps<br>1600 steps<br>12800 steps<br>10000 steps<br>1000 steps |
| Accuracy error             | +/- 0.3 arc/min                                                                                                                                                                                                                                 |
| Rotor inertia              | 0.18 kg.cm <sup>2</sup>                                                                                                                                                                                                                         |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                       |         |
|-----------------------|---------|
| Service life in hours | 20000 H |
| Marking               | CE      |
| Product weight        | 0.61 kg |

## Environment

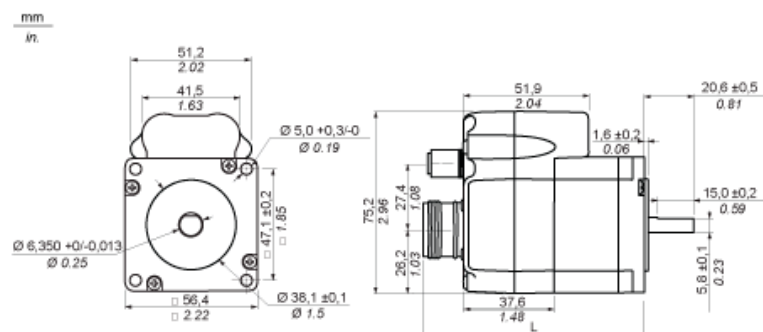
|                                                       |                                                                                                                                                                                                                               |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                                             | EMC immunity IEC 61000-4-2<br>EN 55011:2007, A2:2007 for Group 1, Class A<br>EN 61000-3-2 : 2006<br>EN 61000-3-3:1995, A1:2001, A2:2005<br>IEC 61000-4-11<br>IEC 61000-4-3<br>IEC 61000-4-4<br>IEC 61000-4-5<br>IEC 61000-4-6 |
| Ambient air temperature for operation                 | 0...50 °C without derating<br>> 50...65 °C with power derating of 2 % per °C                                                                                                                                                  |
| Permissible ambient air temperature around the device | 100 °C                                                                                                                                                                                                                        |
| Ambient air temperature for storage                   | -25...70 °C                                                                                                                                                                                                                   |
| Operating altitude                                    | <= 1000 m without derating                                                                                                                                                                                                    |
| Relative humidity                                     | 15...85 % without condensation                                                                                                                                                                                                |
| IP degree of protection                               | IP54 total except shaft bushing conforming to EN/IEC 60034-5<br>IP41 shaft bushing conforming to EN/IEC 60034-5                                                                                                               |

## Offer Sustainability

|                          |                           |
|--------------------------|---------------------------|
| Sustainable offer status | Not Green Premium product |
|--------------------------|---------------------------|

## Integrated Drive with Industrial Connectors

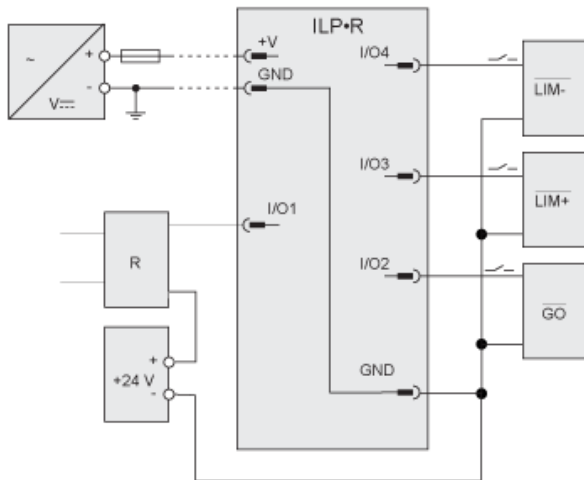
### Dimensions



L 88.39 mm/3.48 in.

## Connection Example with 4 I/O Signals

Three sinking inputs (I/O4 - I/O2) and a sourcing output (I/O1).

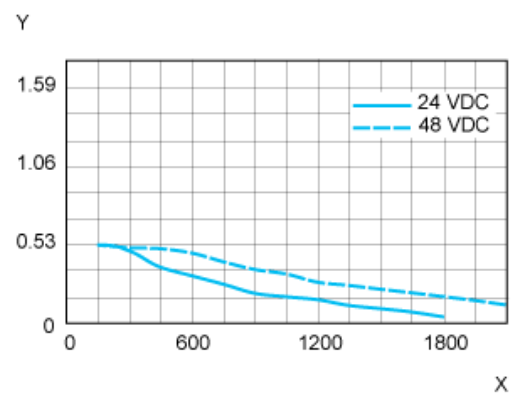


R Relay

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Torque Characteristics

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X Speed of rotation in rpm  
Y Torque in Nm